### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR: APPLICATION NO.

David Wendt 10/644,357

FILED:

August 20, 2003 RSW920030138USI

TITLE

METHOD AND SYSTEM FOR COMPILING JAVA CODE WITH REFERENCED CLASSES IN A WORKSPACE

ENVIRONMENT

MAIL STOP AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### DECLARATION OF DAVID WENDT UNDER 37 C.F.R. §1.131

- I, David Wendt, do hereby declare the following:
- (1) My name is David Wendt and I am the inventor of the above-identified application.
- (2) I submitted an invention disclosure ("Disclosure") on which the above-identified application is based to my employer, IBM Corporation, on March 3, 2003, and last modified the aforementioned Disclosure on March 4, 2003. A copy of the Disclosure is attached as Exhibit A.
- (3) The Disclosure describes the invention described and claimed in the present application and the drawings contained in the Disclosure were filed with the present application. Specifically, under the heading "Main Idea" on page 2 of the disclosure, the claimed invention is described. In regards to claim 1, the pending limitations are disclosed under the subheading "2. Summary of Invention" under the "Main Idea" heading. Here, specifically paragraph 2, beginning with "This technique...", recites the limitations of Claim 1 (and each additional

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independent claim 8, 11, and 15). In this paragraph, details as to the functionality of the compiler are disclosed, including determining and locating a referenced class file in a workspace, and accessing and returning the file via a special classpath identifier. Additionally, the subsequent paragraphs teach the limitations of the dependant claims as are currently pending.

- (4) The Disclosure was submitted to my employer prior to the August 4, 2003 filing date of the Kamentz publication.
- (5) The Disclosure was sent to outside council for preparation and filing on July 1, 2003. A copy of the Transmittal Letter to outside council is attached as Exhibit B.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 12/11/06 David Wendt

S://IBM/IBM RALEIGH RSW/PATENTSW27088 USA/DRAFTS\131 DECLARATION(2).DXX

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### Exhibit A



#### Disclosure RSW8-2003-0105

Prepared for and/or by an IBM Attorney - IBM Confidential

Created By David Wendt On 03/02/2003 01:48:13 PM MST Last Modified By David Wendt On 03/04/2003 06:28:50 AM MST

Required fields are marked with the asterisk (\*) and must be filled in to complete the form .

\*Title of disclosure (in English)

Method for compiling Java code where dependent classes are in a database managed workspace

#### Summary

Status		Under Eva	luation			
Final Deadline						
Final Deadline Reason						
*Processing Location		Raleigh - F	RSW			
*Functional Area	Select	(Nackman	Application	n Developme	nt Tools) Nac	kman: Application Development Tools
Attorney/Patent I	rofessi			oudnikoff/Ra		
IDT Team	Select.	Art Francis Allan K Ed Mark Peter R Redpath Scott Rich Thom Hayr Kelth Puro Virinder Ba David Wen Alan E Boo	u/Raleigh/IB wards/Raleigh/I /Raleigh/IB /Raleigh/IBI nes/Raleigh/IBI eil/Raleigh/ utra/Raleigh/ oth/Raleigh/	M igh/IBM BM M M I/IBM IBM I/IBM	M	
Submitted Date		03/03/2003				
*Owning Division	select	AIM				
Incentive Program						
Lab						
*Technology Code		999				
PVT Score						
	lue Pag endt/Rale		Inventor		Inventor	
nventor Name			Serial	Div/Dept	Phone	Manager Name
Wendt, David M.			505823	7G/5YIA	444-2073	McCrickard, Cindy

> Wendt, David M. > denotes primary contact

Inventors without a Blue Pages entry

IDT Selection

Attorney/Patent Professional IDT Team Gregory Doudnikoff/Raleigh/IBM

Steven Miller/Raleigh/IBM Art Francis/Raleigh/IBM Allan K Edwards/Raleigh/IBM Mark Peters/Raleigh/IBM R Redpath/Raleigh/IBM

R Redpath/Raleigh/IBM Scott Rich/Raleigh/IBM Thom Haynes/Raleigh/IBM Keith Purcell/Raleigh/IBM Virinder Batra/Raleigh/IBM David Wendt/Raleigh/IBM Alan E Booth/Raleigh/IBM

Martin Presier-Marshall/Raleigh/IBM

Response Due to IP&L 04/04/2003

#### \*Main Idea

 Background: What is the problem solved by your invention? Describe known solutions to this problem (if any). What are the drawbacks of such known solutions, or why is an additional solution required? Cite any relevant technical documents or references.

Web content Management systems like WebSphere Portal content publishing (WPCP) provide workspace isolation of content. This isolation works by managing changes to the base set (edition) of the content in a project separately. Basically only users in the same workspace see the changes, others see the base edition content unchanged.

The type of content is varied but involves files and non-file structured content (arbitrary database entries). Both types are stored in a database and retrieved based on workspace using regular database indexing mechanism. Files are stored as blobs and retrieved for the user during preview in a web-application by means of a special file-service and JSP service.

Non-JSP files are simply retrieved using the workspace bias and returned. JSP files, however, must be processed and executed. The project/workspace contains the JSP source and usually any dependent class files created for the project. The main problem occurs when compiling the JSP file where the dependent classes are in the workspace (database) and not on the file-evister.

The solution provided by the current released versions of WPCP require the class files to copied to the file-system. This method as implemented does not provide for workspace isolation. Also, this technique becomes problematic in a cluster configuration. Solutions by other vendors include a special file-system driver to provide workspace isolation or separate copies of each project/workspace processed locally on the client machine.

The retrieval, partitioning and execution of a JSP has been submitted in a previous disclosure. This did not address the dependency on class files within the same workspace and not on the file-system.

Summary of Invention: Briefly describe the core idea of your invention (saving the details for questions #3 below). Describe the advantage(s) of using your invention instead of the known solutions described above.

This technique for compiling Java code (e.g. generated from a JSP) where the classes on in the database (workspace) involve a modified Java compiler. Generally, Java compilers are provided a classpath for finding referenced classes. The modified compiler provides to a special classpath identifier to indicate the context (project/workspace) where dependent classes may be found.

Using the classpath approach allows for appropriate class access when resolving within the position of the classpath positioning also allows for training of dependent workspaces. No files need to be copied to the file-system or duplicated to other machines in a cluster. Also, non-project classes which are on the file-system (file the JOK) are resolved normally.

Description: Describe how your invention works, and how it could be implemented, using text, diagrams and flow charts as appropriate.

The Java compiler is modified to include a special ClassFile and ClassPath objects which are used to resolve and access class byte-codes. This code recognizes the special classpath identifier and use the specified context (project/workspace) to locate the reference classes in the database.

# REDACTED

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### Exhibit B

## IBM

Software Group Intellectual Property Law T81/503, P.O. Box 12195 Research Triangle Park, NC 27709

July 1, 2003

Mr. Mark D. Simpson, Esq. Synnestvedt & Lechner, LLP 2600 Aramark Tower 1101 Market Street Philadelphia, PA 19107 ENTERED COMPUTER

8-13-03

Re: Docket No.: RSW920030138US1, Disclosure Number, RSW8-2003-0105

Dear Mark

Enclosed please find materials for preparing a patent application for the above invention disclosure. We ask that this application be filed by AUGUST 20, 2003.

The lead inventor for this applications is:

David Wendt - 1-919-254-2073 - wendt@us.ibm.com

If you have any questions or need anything further, please do not hesitate to call.

Thank you very much for your continued support.

Sincerely,

Gregory M. Doudnikoft) Linda Dupont, Assistant

Intellectual Property Law Software Group

GMD:ld Enclosures MAS

JUL - 2 2003

SYNNESTVEDT & LECHNE